User Manual

1. Functions & Features

The terminal is an eight-channel GSM fixed wireless access terminal. It is suitable in rural and remote areas where PSTN is not available, and it's also applicable as wireless public phone. It can be connected to payphone, PBX and charge counter to provide more flexible services to users. This product has the following function characteristics:

1. Suitable for GSM 900/1800 or 850/1900 MHz network, taking SIM card as wireless interface.
2. Provide the reverse polarity signal for charging.
3. Can be connected with charging counter, payphone and PBX.
4. Can set up call-out/call-in restriction.
5. Caller ID.
6. Hands free, redial, sound volume adjustment while calling in/out.
7. Wireless signal indicator available.
8. Possess an agile function for setting up parameters through the phone set.
9. The power supply of DC12V and AC220V are both OK.
10. PIN code protection.
11. Ingenious outside appearance is the standard 1U 19 inches.

2. Terminal Configurations

A terminal is matched with the following parts generally:

- GSM fixed wireless access terminal: 1 pc
- Antenna: 8pcs
- SIM card cover board: 8pcs
- Telephone line: 8pcs
- Power resource line: 1 pc
- User manual: 1 set
- Fuse and bolt

3. Terminal Installation

Picture of GSM terminal

Unit Front View

Unit Back View

A) Installation of SIM card:

CAUTION! Please fix the SIM card without connecting to the power supply! 1 port with 1 SIM card, 1 antenna and 1 phone port connected with telephone set.

1. Upend the mainframe so you can see the SIM card pedestal at the bottom.
2. Push SIM card holder gently along with arrowhead to put it up.
3. Insert SIM card into the holder
4. Press down the holder of SIM card and push it by the backward direction of arrowhead until the SIM holder is fixed on the card pedestal.
5. Use the SIM cardboard to cover pedestal and screw it down.

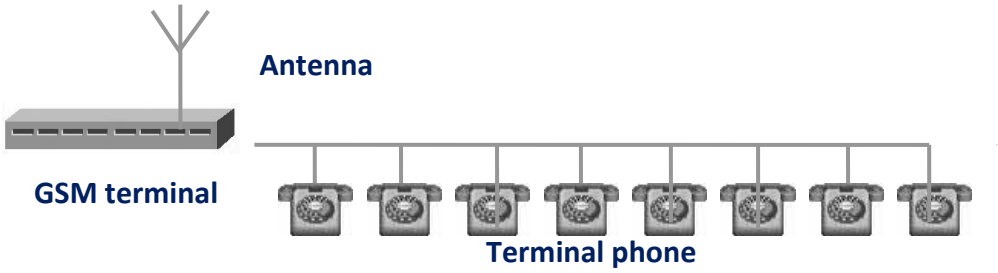
B) Assembly of the terminal:

CAUTION! Make sure that the power switch is turned off.

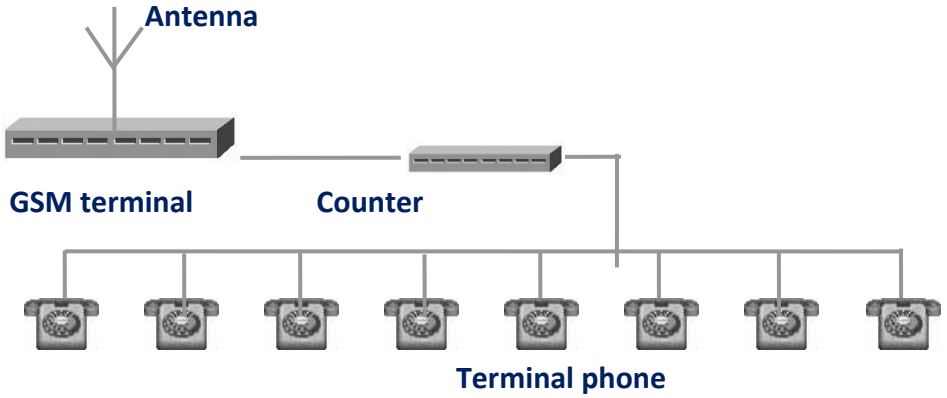
1. Keep the terminal with fixed SIM card flatwise.
2. Screw down the connector of antenna to the bolt stick on the back of the terminal.
3. Plug one connector of standard phone cable to the phone, and plug the other end to the phone port on the back of the device.
4. If the customer need to charge, please put the multiplex counter (be prepared by the user) between the phone and the terminal.
5. Make sure the switch of device is off, and then plug the input connector of the adaptor to the AC power socket, and the output connector to the power port on the back of device.
6. If needing to use the spare power supply (prepared by the user), please connect the spare power supply to DC binding post of the terminal. (spare power supply is DC 12V)
7. Switch the power on, then you can choose to open the sub-switch button of each port.

Note: Make sure each sub-switch is off when you switch the power on.

Connecting Sketch Map 1



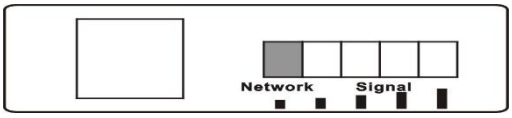
Connecting Sketch Map 2



4. Operation Instructions

Before starting the following operations, please make sure the terminal is connected correctly. Then turn on the power switch in the front of the terminal.

A) Explanation of state indicator light (take one port for example):



1) Network indicator (the first light): the light is on, it means the device get connected with network, vice versa.
2) Signal intensity indicators (rest 4 lights): They display the current signal intensity. When the signal is stronger, more indicator lights will be on, vice versa.

B) Dialling a telephone call:

1. Take up the handset while the network LED is on.
2. Begin to dial the number after hearing the dialling tone.
3. Talk on the telephone after putting through.
4. Hang up the handset to end the call communication.

C) Answering a telephone call:

When the telephone rings on, answer the phone by picking up the handset.

5. Usage of the Charging Counter

If the user connects the charging counter, please read the user guide of the charging counter carefully before using so as not to influence the normal use of the wireless terminal.

6. Setting functions

1. Set up the local area code in advance, then you can dial the local phone number without dialling the area code.
2. Can setup two groups of IP numbers in advance when dialling international and national phone numbers, then you do not add the IP code before the phone number; it will be added by the terminal itself.
3. The multi-lever volume can be adjusted.
4. The prohibited number can be setup.
5. Can set up calling in restrictedly.
6. SIM card can be locked.

Caution! The system setup must be operated by the professional personnel.

7. Technique parameters

1) Working frequency:

	Transmit band (Tx)	Receive band (Rx)
GSM 850	824 to 849 MHz	869 to 894 MHz
DCS 1800	1710 to 1785 MHz	1805 to 1880 MHz
PCS 1900	1850 to 1910 MHz	1930 to 1990 MHz

2) User access port:

Dialling tone frequency: 450Hz continued

Busy tone frequency: 450Hz 0.35s/0.35s

Loop current off-hook: 25mA

3) Parameters:

Items	Parameters
Working voltage	AC220V / DC12V
Environment temperature	0~45℃
Humidity	10%~95%
Air pressure	85~110Kpa
Environment noise	<50dB
Emission power	2W
Statoscope	-110dBm
Antenna plus	>5dB

4) Volume: 440(L)*245(W)*45(H) mm

8. Troubleshooting

Notes

Working environment: Choose areas with good signal

Requirement for the power supply: The reliable and stable power supplies will guarantee the normal working of GSM terminal.

Antenna: Keep the antenna far away from the telephone to reduce the communication disturbance.

No	Problem	Possible Causes	Possible Remedy
1	Not connected to network.	SIM card not inserted correctly. SIM card is dirty. Antenna is not well connected.	Install the SIM card again. Clean the SIM card with a dry cloth. Check the antenna connection. Adjust the antenna position.
2	No dialling tone is heard after off-hook.	1. The phone cable is not correctly connected.	1. Check the cable connection.
3	No caller ID.	The service is not enabled. The phone does not support caller ID.	Check the service is enabled on the GSM network. Change for a phone supporting caller ID.